Garrett Beatty

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Work Experience

- **Comcast NBCUniversal** — Philadelphia, PA
  Software Engineer — *June 2019 - Present*
    - Developed a messaging microservice that allows over 31,000 technicians to quickly report app issues. This effort lead to
    - Integrated Azure AD Multi-Factor Authentication (MFA) into the Tech360 application to comply with Comcast security standards.
    - Migrated continuous integration (CI) pipelines to Concourse and integrated with Cloud Foundry to provide zero downtime deployments using the Blue-Green deployment technique. This effort led to blah blah

- **Lockheed Martin** — Moorestown, NJ
  Software Engineering Intern — *June 2018 - August 2018*
    - Worked on an Agile team to support the development of the Aegis Combat System using Java and C++.
    - Automated parts of the build process using Jenkins, Python, and Bash.
    - Collaborated with a team of 6 interns to simulate a vehicle that can transport and fire a rocket at a target using MATLAB.

- **The College of New Jersey** — Ewing, NJ
  Student Researcher - Machine Learning (ML) — *Jan. 2017 - Dec. 2017*
    - Designed a machine learning (ML) and natural language processing (NLP) infrastructure with a team of 5 students and faculty in Python using machine learning and statistical analysis libraries such as scikit-learn, numpy, pandas, and matplotlib.
    - Improved the speed of the infrastructure by 95% by adding support for parallel processing on the High Performance Cluster (HPC).

- **Comcast NBCUniversal** — Philadelphia, PA
  Software Engineering Intern — *June 2016 - August 2016*
    - Increased the efficiency of the Quality Assurance team by creating a Node.js application that automatically generates unit testing reports, which can be filtered by date, device type, operating system, etc.
    - Collaborated with another intern to create a web application in C#, HTML, and Javascript that connects to an SQL database to retrieve customer session information.

Education

- **The College of New Jersey** — Ewing, NJ
  Bachelor of Science in Computer Science — *Aug. 2015 - May 2019*
    - Advanced Courses: Natural Language Processing, High Performance Computing, Semantic Multimedia Analysis, Cryptography
    - Co-Founder/President: TCNJ Table Tennis Club

Projects

- **Android Application - "arXiv eXplorer"**
  arxiv.gbt.codes
    - Published an Android application with over 9,000 downloads that allows users to browse, search, and download scientific papers from arxiv.org.
    - Java, Butterknife, OkHttp, Sugar ORM, arXiv API, Travis CI, Fastlane

Skills

- **Proficient:** Python, Java
- **Past Experience:** C, C++, C#, SQL, Node.js, Javascript, HTML, CSS, Jade, Bash
- **Tools:** Git, Concourse, Jenkins, Cloud Foundry, MongoDB, Linux/UNIX, SLURM, Fastlane
- **Libraries/Frameworks:** Spring Boot, scikit-learn, numpy, pandas, matplotlib, Keras, OpenCV, Flask

Publications

"The Use of Unlabeled Data versus Labeled Data for Stopping Active Learning for Text Classification", *Proceedings of the 2019 IEEE 13th International Conference on Semantic Computing (ICSC), Newport Beach, CA, 2019.*